VOLUME CIV

INDEX

1964

A

ABJ published in Hamilton 52 years—175
Accident figures for 1963—207
Adam, Bro., from Buckfast—412
Adee, Marie, Pres. Am. Fed. Auxiliary—264
Aerial survey of nectar prospects—58
AFB, cure found—290
Agricultural Hall of Fame—213, 289
Allergy—406
Aluminum foundation—302
Am. Bkg. Fed. campaign for members—223
Am. Bkg. Fed. representatives in Washington—175
Am. beekeeping literature, early—427
Am. honey exhibited in Europe—248, 249, 413
Am. Honey Institute history—212
Antibiotic patties—7
Anti-granulation of honey—336
Ants in bee yard—219, 453
Apiary on platform in Florida—90, 245
Argentina honors Americans—86,426
Around the Bee Yard—60, 258
Arsenic in chicken livers—246
Artificial insemination—13
Assistantship available—346
Athletes, honey for—44
Australia invites Haydak for visit—418
Australian honey—59, 131, 198
Australian journal, new—372

B

Bear-proof apiary—301
Bee breeding lab. Baton Rouge—13
Bee—
  culture project—331
  importations—134
  repellents—93
  research association—324
  rustling—284, 292
  venom, how to obtain—7
Bee World—324, 367
Beekeepers, are they farmers—386
Beekeepers, three types—328
Beekeeping—
  in Africa—257, 374
  in Arizona—368
  in Australia—59, 131, 247, 411
  in Czechoslovakia—255
  in Holland—373
  in Hungary—91
  in Idaho—208, 209, 210
  in intermountain area—376
  in Minnesota—16
  in Nevada—54
  in Nigeria—57
  in Queensland—375
  in Tanganyika—130
  in Texas—370
  in Vermont—293
  literature, early—427
  problems—52
  starting—10
  Taylor method—48
Bees—
  affected by chemical gases—334
  behavior of Nosema infected—214
  Curneen—414
  Cyprian—19
  fed yeast in feed—215
  help farmers—332
  important to orchards—326
  killing in fall—63
  moving—301
  on nectar-producing plants—12
  pollinate fruit trees—338
  pollinators of melons—366
  prefer colored foundation—255
  removing from building—219
  replacement in Britain—246
  shipped to India—287
  stingless—7
  subject for science project—331
Beeswax imports—248
Beeswax preparation—254
Benzaldehyde for removing honey—136
Benzaldehyde, special warning—409
Birdsfoot trefoil—438
Black bees in Calif.—414
Blue shoes—218
Blueberry honey—371
Books—
  Beekeeping in India, Sardar Singh—130
  Biological Control of Insect Pests and Weeds—326
  Dictionary of Beekeeping Terms, Vol. 3, Eva Crane—326
  Eucalypts, Penfold & Willis—427
  Honeybees in Natural and Professional Selective Breeding, Dr. Goetze,—247
  Infectious Diseases of the Honey Bees, Dr. L. Bailey—286
  La Biruche, (French) - E. L. de L'Hoste —295
Brain Teasers—98, 138, 178
Bread, honey loaf—61
Broadman, Dr.—46, 47
Brood transported in incubator—410
Brother Adam in USA—140
Bumblebees and honey bees—12

C

Cale, Dr. G. H. Jr. honored in Argentine—426
California marketing—411
Campaign for members to ABF—223
Canadian figures on honey—398
Cancer hazard of chemicals—46
Candle making—255
Carbon disulfide for wax moths—261
Census records for agriculture—86
Check-off participants—382
Check-off plan—4, 66, 124, 251, 284, 324, 364, 404
Chemical effect on honey bees—334
Chenovicks win first prize trophy—143
Children learn about honey in school—415
Citrus growers fight competition—247
Colonies stolen—284, 292
Colony management—96
Colony, outdoor—6
Color preference by bees—255
Combs, removing honey from—301
Comb honey, storing for winter—301
Comb honey, freezing—341
Comb honey, queen rearing for—50
Coral (Favosite)—6
Cornell scientists develop honey wine and mead—251
Correspondence course, Pa.—64
Cottonseed meal gathered by bees—301
Covers—
  Jan.—Bee in section of tree
  Feb.—Tenn. football team
  Mar.—Queen emerging from cell
  Apr.—Queen laying eggs
  May—Millard Stahlman
  June—Dog being fed honey
  July—Neil and Eileen Allen
  Aug.—Janice Stahlman examining bee
  Sept.—Bee with pollen
  Oct.—Bee on blossom
  Nov.—Census taker
  Dec.—
Crop and Market—38, 78, 118, 158, 198, 238, 278, 318, 358, 398, 438, 478,
Crops increased by bees—332
Cure found for AFB—290

D

Diagrams—
  bodies for queen rearing—50
  color range Pfund scale — 452
  device for handling honey supers—132
  Nevada—55
Disease—
  control—51, 87, 97
  in USA and Canada — 454
  insurance in Australia—247
  law in Florida changed—142
  Nosema—214
  percentage in Michigan—284
  preventive treatment—302
  review of—407
Drifting of bees—366
Drones have gathering areas—86
Drug profits may be cut—206
Drugs mixed for feeding—381

E

Economics applied to beekeeping—250, 293
Editorial—
  Jan.—Forward in 1964—4
  Feb.—Encourage young beekeepers—44
  Mar.—In the same boat—84
  Apr.—Check-Off plan—124
  May—Total honey production—164
  June—Ribicoff hearing—204
  July—Some food for many thoughts—244
  Aug.—Check-off plan needs your support —284
  Sept.—Bee Research Ass'n.—324
  Oct.—Pesticide monitoring program—364
  Nov.—Honey Market and price support—404
  Dec.—Association support—444
Eggplant, experience with—98
Egypt to receive grant—206
Electric fence for bears—301
Electron capture detector—367
Eulogy to the mighty bee—415
Excluders, using—99, 211, 292, 342
Exhibits—
  at ABF convention—422
  at Cologne, Germany—249
  at Ill. State Fair—424
Extracting, heating honey first—63
Extracting made easier—132
Extractor, solar—86, 168

F

Favosite, honey comb coral—6
Feed, sugar syrup—19
Feeding in spring—258
Feeding, natural—92
Fifty years with bees—296
Film on swarming—255
Florida report—142
Food fairs in Europe—248, 249, 413
Foreign articles on bee diseases—407
Fork lift attachment—368
Four-H—
  Florida—181
  No. Car.—47, 126, 286, 329, 366, 367
  Pa.—46
Frames, spacing in hive—302
Freezing honey—341
Fuel for smokers - paper—171

G

Garden for bees—198
Grant for Egypt—206
Grant for entomology student—346
Granulation prevented by freezing—341
Greece, journey into—167

H

Hall of Fame—213, 289
Haydak to visit Australia—418
Hive entrance, upper—301
Hive in kitchen—8
Hive tipper—379
Honey—
  Am. exhibited in Europe—248, 249, 413
  anti-granulation method—336
  as an antiseptic—213
  at exhibit in Amsterdam—248
  Australian—59, 131, 198, 418
  base in vitamins—127
  cans filled easier—176
  coloration of citrus — 451
  exports and imports—94, 418
  fermenting—302
  for athletes—44
  instead of cigars—333
  judges, school for—427
  labeling by floral source—63
  levy on in Australia—198
  liquefying in oven — 453
  marketing—14, 252, 411
  pasteurizing—336
  plants increase production—88
  preparing for exhibition—219
  Price Support—265, 404, 426, 438
  prices flexible—250
  production—88, 164, 166, 416
  promotion in Minnesota—416
  rendering without extractor—261
  report for Canada—398
  report, foreign—456
  school children interested in—415
  selling—15
  served at restaurant-motel—61
  show, trophies—143
  sourwood—259
  straining with nylon—63
  tupelo—90
  week in Georgia—344
  week, National—385
  world production—288
Honey Queens—
  American (1964) Leslie Floyd—101, 263, 345, 417
  American (1963) Linda Andrews—306
  Kans. - Carol Shearon—26

Kans. NE - Connie Shearon—26
Kans. Jan Engle—462
Minn. (1963) Leslie Floyd—6, 23
Minn. (1964) Jeanenne DeMesy—345
Minn. (1965)Anita Berg—345
Miss. - Betty Lou Stuart—26
N. Dak. - Linda Hofteland—25
Tenn. - Linda Pitt—65, 140
Tex. (Miss Dallas) Denise High—247
activities of—417
applications for—423
needed in industry—416
Hybrid bees—60, 96, 127, 213
Hybrid forages—407

I

Illinois State Fair trophy—181
Importations from Europe—134
Incubator for transporting brood—410
Insect control by photoflash—366
Insecticide problems—91, 93, 179, 292, 367, 374
Insemination of queens—13, 398
Inspection in Michigan—166
Insurance for disease loss—247
Intermountain states produce good honey—376
International Food Fair—413

L

Laboratories—
Baton Rouge—13
France—256
Ohio—182
Tucson—383
Vienna—86
Wisconsin—438
Lectures sell honey—15
Liver may contain arsenic—246
Loans on honey—265, 404, 426, 438
Longevity of honey bees—334

M

Madison Lab. changes address—438
Maine's biggest beekeeper—371
Marketing honey—14, 252, 411
Mead—6, 251
Meetings—
Am. Bkg. Fed. (1964) Minneapolis—22, 100, 102, 460
Am. Bkg. Fed. (1965) Atlanta, Ga.—343, 422
Am. Bee Breeders' Ass'n.—27, 100, 183, 265, 384
Am. Honey Show (1964)—103, 143 (1965) 343, 422
Eastern Apicultural Society—64, 102, 140, 180, 220, 264
Honey Industry Council—100
Illinois 74th convention—423
International Congress (1963) Prague—47, 91 (1965) Bucharest—213, 303
Short Course, Guelph—183
Short course, Minn.—265
Short course, Pa.—222, 306
Southern States Fed. & ABBA—142, 183, 265, 294, 303, 345, 384
Melons depend on honey bees—366
Michelangelo and beeswax—166
Michigan inspection figures—166
Minnesota honey promotion—416
Minn. U. studies on bees—16
Mo. U. receives gift—137
Molasses cheaper—213

N

Nectar secretion increased—91,166
Nitrate shortens a bee's life—46
Nitrous oxide—381
Nosema infected bees—214
Nucs for increasing—459
Nylon for straining honey—63

O

Obituaries—
Baxter, Leroy—464
Beaver, Harry W.—141
Bush, Clifford H.—105
Coffey, Whitman—464
Darnell, Otto—464
Deyell, Jack—425
Evans, Alan B.—346
Filmer, Robert S.—464
Fish, Leonard A.—104
Freeman, Clarence—26
Ghent, Dr. Ralph—385
Hausmann, Charles—464
Hengy, Archie—223
Jones, Frank Wesley—183
Killion, Mrs. C. E.—425
Mohr, P. P.—65
Osborn, Wesley W.—464
Osmundson, R.—464
Payne, Geo. W.—27
Phillips, Mary Geisler—104
Rae, George H.—141
Rayment, Tarlton—346, 425
Rickman, Willis—425
Shield, Tom H.—105
Smith, Howard D.—104
Smock, Roy—26
Straub, Walter F.—346
Sutvan, Earl W.—27
Victor, Allen G.—105
Wight, Elmer H.—105
Wiley, W. A.—223
Williams, Shirley D.—223
Observation hive—8, 19, 331, 341
Orange juice has competition—247
Overbey's granddaughter—86

P

Paradichlorobenzene, use of—99
Peppermint used in introducing queens—171
Pest control, non-chemical—326
Pesticide problem—7, 46, 140, 166, 167, 198, 206, 213, 246, 286, 292, 327, 364, 367
Planets, questions about—138
Plants, honey—139, 216
Plants, nectar producing—12
Plastic fishing line for wiring frames—19, 297
Poems—138, 213, 450
Polders in Holland—374
Pollen, a near perfect food—287
Pollen, reserve—96
Pollen, substitute—170, 301
Pollination—
advertising for—457
of blueberries—371
of fruit trees—338
of melons—366
whistle used—46
Price Support—265, 404, 426, 438
Propionic anhydride, a repellent—334
Publications—
Apiary inspector's training manual, Calif.—175
Beekeeping in Illinois, Cir. 566—139
Best from the West with honey—138
Common forest trees of Florida—126
Confinement of honey bee colonies to avoid pesticide losses, Jaycox—425
Deer browse plants of southern forests, Florida—126
Effect on honey bees of nectar from systemic insecticide-treated plants, Jaycox—425
Pesticide residues, USDA—213
Save our pollinating insects, Eng.—287
Studies on the physiology and ecology of the honey bee, Lensky, Israeli & French—295
Purchas, beekeeper, writer—427
Puzzle, crossword—178

Q

Queen—
cells—419, 421
excluders—211, correction—292
mating flights repeated—398
rearing for comb honey—50
unusual one—341
Queens—
clipping wings—63
extra in bee yard—219
finding—381
introduction—171
Midnite—6, 179
pure strains—140
Quizzes—
brain teasers—98, 340
crossword puzzle—178
food names—218
gourmet—380
international cooking—260
know about the planets—138
potato—380

R

Races of bees—261
Rape honey in Holland—373
Recipes—
Apple slices—62
Apricot combo float—340
Bread, shredded wheat—21
Buns, cherry pink—300
Cake—
cheese—299
Christmas tea—458
date—298
fruit—298
honey—420
Candy—98
Chocolate sauce—299
Cranberry relish—138
Cookies—
beehive—458
Chocolate-oatmeal—62
filling—62
honey-lemon—62
oatmeal—21
peanut butter—62
Doughnuts—299
Dressing for cabbage—340
Honey-soy dressing—260
Ice cream crisp—299
Muffins—380
Peach-strawberry compote—21
Peanut butter sauce—300
Pear honey tapioca—420
Pie, cherry honey—62
Pie, honey sherried—300
Pie, pumpkin—138
Plum sauce—21
Praline sundae sauce—300
Punch, honey blossom—218
Punch, orange milk—21
Rolls, all-bran—298
Rolls, date—21
Salad, honey-cabbage—260
Sandwich filling—218, 420
Tarts, honey-pecan—62
Records for census—86
Records on scale hive—377
Rendering beeswax—254
Rental prices in Britain—131
Requeening—60, 99, 179, 342, 381, 421
Research Association—324, 367, 372
Research—
at Missouri Univ.—54, 137
grant to Egypt—206
on Florida plants—175
on insecticides—327
on repellents—93
Ribicoff (Sen.) on pesticides—327
Royal jelly—261, 287, 450
Russian beekeeping—128
Rye flour sub for pollen—179

S

Scale hive records—377
School for honey judges—427
Science project, bees—331
Scouts study beekeeping—127
Seed crop reports—91, 333, 372, 398, 438, 457
Separator, honey and wax—168
Sevin, name changed to Carbaryl—6
Sixties filled easy way—176
Smithsonian Institute installs bees—286
Smokers, paper fuel—171
Social Security and the beekeeper—249, 293, 333, 413, 457
Soil, top dressing for—91
Solar extractor—86, 168
Solignum (wood preservative)—374
Soviet Union, visit to—128
Soybeans thought to produce honey—372
Sperry article, comments on—95
Spraying, court case against—140
Stahlman's honey makes money—173
Stapling machine for hive parts—388
Sting allergy—406
Sulfa, first experiments—290
Supering in time—342
Supers cleaned on hives—301
Supers handled in honey house—132
Swarm—
brought down by whistling—171
catcher—367
control—97, 139, 459
hiving—378
in October—18, 413
kills fisherman—213
twelve pound—330
unique settling places—450
Swarming, artificial—171
Swarming, film on—255
Syrup for feed—19

T

Tank, honey—446
Taylor method of beekeeping—48
Tenn. honey taste treats—61
Terramycin for disease—51
Terramycin prevents winter loss—255
Todd, Frank, ill—463
Trefoil—216, 438, 453
Tropical apiculture course—438
Tupelo honey—90

W

Warth, Lee C. beekeeping fund—137
Washboard movement of bees—381
Wax extractor, solar—86, 168
Wax moth larvae, use for—10
Wax moth, control of—63, 99, 261, 302
West African bees—58
Wheler, Greek author—427
Whistle used in pollination—46
Whistling to control swarming—171
Wintering—139
Workers, laying—7
World flower and garden show—221
World production, honey, 1963—288

ILLUSTRATIONS

A

Adam, Brother—140
Adee, Mrs. Clayton—264
Anderson, Edwin J.—168
Anise-hyssop—88
Apiaries—
  Australia—45, 59
  Austria—246
  Bunch, F. Q.—47
  Dietz, E. F.—216
  Germany—6
  Indiana—7
  Kalthoff—167
  Nevada—56
  Switzerland—207
  Taylor—49

B

Baxter, Leroy—464
Bears in beeyard—87
Bee pipe—60
Bee with pollen load—246
Bees, stingless nest—7
Benson, U. H.—370
Birdsfoot trefoil—217
Boom, labor-saving device—285

C

Catnip, Siberian—89
Childers, Prof. L. F.—291
Crane, Eva—128
Chenovick, Al & Ted—143
Comb with word "Honey"—206
Combs, unusual—6, 87, 206, 246, 258, 327

D

Diehnelt, Mrs. Pat—298

E

Electric valve for filling cans—176
Engle, Jan—462
European food fairs— 248, 249

F

Farrar, C. L.—96
Fork lift—396
French, R. B.—451

G

Gold Acre Honey Farm—6
Grace, Mrs. Harriett M.—212
Guards at entrance of hive—128

H

Haseman, Dr. Leonard—291, 386
Haydak, Mykola H.—16
Haynie, John D.—451
Herman, Dr. H. A.—296
Hive, observation—8
Hive stand in tupelo country—90
Hive tipper—378
Hives made of potter's clay—375
Holmes, Dr. F. O.—12
Honey displays—
  Flower & Garden Show—221
  Ill. State Fair—424
  Nigerian—58
  Okla. State Fair—166

I

Idaho honey houses—208, 210
Indiana bee inspectors—181

L

Lab at Ohio Univ.—182
Lab in southern France—256
Lab in Vienna—86
Laying workers in colony—7
Lid tightener—247

M

Mackensen, Otto—326
Maps showing percentage disease—454
Meineke, Ellsworth—306
Microscope, stero-dissecting—206
Moth, Death's Head—126

P

Packard, P. M.—142
Phillips, E. F. and family—104

Q

Queen and attendants—205
Queen cells—165
Queen emerging—Mar. cover

S

Scale hive—377
Skep with swarm—367
Solar wax melter—86, 169
Sperry, P. Everett—14
Stahlman and load of wax—172
Stapling machine—368
Stone, Phillip C.—52, 137
Strainer basket—446
Straub, Walter F.—346
Swarm—330, 367, 378
Swensen, Marian—462

T

Taber, Stephen, III—13
Table top for super dumping—133
Tank, bottling—446

V

Victor, Allen G.—105

W

Warth, Lee C.—137
Wilson, R. B.—252

CONTRIBUTORS

A

Anderson, Edwin J.—168, 446
Andrews, Robert—59

B

Baldensperger, Nora—256
Beck, C. R.—250, 254
Blumit, Dezija—371
Bradshaw, R. D.—209
Bunch, F. Q.—416

C

Cale, Jr., G. H.—412
Campbell, Colin—130
Crane, Eva—128

D

Dadant, M. G.—257, 288, 294, 454
Dietz, Alfred—407
Dietz, E. F.—216
Draper, Dianne—331
Dudney, Wallace N.—413
Duncan, Clyde H.—290, 386

E

Eaton, Wm. G.—61
Egeland, Jack E.—15

F

Farrar, C. L.—96
Floyd, Leslie Kae—417
Ford, Roland—92
Frazier, Dr. Claude A.—406
French, Rowland B.—451
Frisque, Merrill—176
Frost, D.—173
Furber, John H.—15

G

Gallaher, Frank—44
Gerard, Sue—8
Grace, Harriett M.—212
Green, Marie—415

H

Haccour, P.—374
Haefell, Jean—415
Hartman, Ed—84
Haydak, Mykola H.—16
Haynie, John R.—451
Herman, Dr. H. A.—296
Holmes, Francis O.—12
Holterman, Glen—255
Holzberlein, John W.—376
Honl, Mrs. E. C.—50
Hoogeveen, C. L.—373
Huffman, Chuck—10
Hutchison, Arthur H.—249, 293, 333, 413, 457

J

Jaycox, Elbert R.—338
Johnson, E. J.—374
Johnson, Virgil H.—88
Jones, Father Augustine—334

K

Kalthoff, Carl—289
Keever, Bobby—329
Kellogg, Claude—374
Keyarts, Eugene—90
Killion, Carl E.—221
Knutson, Ben M.—379

L

Lawson, Julie—98
Lima, Elliot R.—54
Littlefield, Hood—324

M

Mead, Robert M.—293
Miles, Chas. B.—211
Miller, Neil J.—208, 210
Moeller, F. E.—214, 334
Morse, Roger A.—93
Murphey, Milledge—132

N

Norris, Mrs. E. F.—378

P

Palmer, Stanley—377
Parker, Everette E.—330
Phelan, James—136

R

Roff, C.—375
Rowe, T. J.—51

S

Sauriol, Charles—328
Shepherd, F. W.—57
Showers, Robert E.—334
Smith, Marshall V.—134, 410
Sperry, P. Everett—14
Squires, S. C.—419
Stephen, W. A.—444
Stewart, L. R.—255
Stewart, Zona M.—368
Stone, Philip C.—52

T

Taber, III, Stephen—13
Taylor, L. D.—48

V

Vance, James E.—370

W

Walsh, R. S.—336
Welch, Garvin—18
Wells, T. J.—332
Whiting, Ivan—211
Wilson, R. B.—252
Woodruff, Curtis L.—414
Wyndham, Robert—10